

3. (Once Amended) A composition according to claim 1 which comprises from about 9.0 to about 10.0 w/w% of protein.

4. (Once Amended) A composition according to claim 1, wherein the protein source comprises casein protein.

5. (Once Amended) A composition according to claim 4, wherein the protein source comprises about 6% to about 50% by weight of whey protein and about 20% to about 40% casein protein.

6. (Once Amended) A composition according to claim 1, wherein the protein source is substantially free of lactose.

7. (Once Amended) A composition according to claim 1, wherein the protein source has less than 10% blocked lysine.

8. (Once Amended) A composition according to claim 1, wherein the protein source comprises hydrolyzed protein.

9. (Once Amended) A composition according to claim 8, wherein the protein source comprises about 98.5% to about 97% by weight of hydrolyzed sweet whey protein and about 1.5% to about 3% by weight of arginine, tyrosine, and histidine.

10. (Once Amended) A composition according to claim 1 which comprises:
about 0.1% to about 3% by weight of arginine;
about 0.2% to about 1% by weight of a component selected from the group consisting of tryptophan and tyrosine; and
about 0.1 to about 1.5% by weight of histidine.

11. (Once Amended) A composition according to claim 1 which comprises a lipid source and a carbohydrate source.

12. (Once Amended) A composition according to claim 11, wherein the lipid source includes medium chain triglycerides.

13. (Once Amended) A composition according to claim 11, wherein the carbohydrate source includes lactose.

14. (Once Amended) An infant formula comprising a protein source having a low threonine content and comprising:

a whey component selected from the group consisting of acid whey protein and sweet whey protein from which caseino-glyco-macropeptide has been removed;

a component selected from the group consisting of free tyrosine, free tryptophan, tryptophan rich milk protein and mixtures thereof;

up to about 1.5% by weight histidine; and

about 0.1% to about 2% by weight arginine.

15. (Once Amended) An infant formula according to claim 14, wherein the protein source comprises about 0.2% to about 0.4% by weight histidine, about 1% to about 2% by weight arginine, and about 0.2% to about 0.4% by weight tryptophan.

16. (Once Amended) An infant formula according to claim 14, wherein the protein source comprises about 1% to about 1.5% by weight histidine, about 0.6% to about 0.9% by weight arginine, and about 0.3% to about 0.5% by weight tyrosine.

17. (Once Amended) An infant formula according to claim 14, wherein the protein source comprises about 0.2% to about 0.4% by weight histidine, about 1% to about 2% by weight arginine, and about 0.2% to about 0.4% by weight tyrosine.

18. (Once Amended) A method of producing an infant formula composition comprising the steps of:

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blending whey protein and casein protein together with free arginine, free histidine, and a component selected from the group consisting of free tyrosine, free tryptophan, tryptophan rich milk protein and mixtures thereof, and homogenizing the blended mixture.

19. (Once Amended) A method of providing a medicament to an infant comprising the step of administering to an infant a formula comprising:

a protein source which has a low threonine content and comprising a whey component selected from the group consisting of acid whey protein and sweet whey protein from which caseino-glyco-macropeptide has been removed, free arginine, free histidine, a component selected from the group consisting of free tyrosine, free tryptophan, tryptophan rich milk protein and mixtures thereof, and a medicament.

20. (Once Amended) A method of providing nutrition to an infant comprising the step of administering to an infant a formula comprising:

a protein source which has a low threonine content and comprising a whey component selected from the group consisting of acid whey protein and sweet whey protein from which caseino-glyco-macropeptide has been removed, free arginine, free histidine, a component selected from the group consisting of free tyrosine, free tryptophan, tryptophan rich milk protein and mixtures thereof, and a nutritional agent.

Please add Claims 21-39 as follows:

21. An infant formula according to claim 14, wherein the protein source comprises up to about 0.1% by weight histidine, about 0.1% to about 0.3% by weight arginine, and about 0.3 to about 0.5% by weight tryptophan.

22. A method according to claim 18, wherein the infant formula comprises less than about 8g threonine/16g nitrogen.

23. A method according to claim 18, wherein the infant formula comprises casein protein.
24. A method according to claim 18, wherein the infant formula is substantially free of lactose.
25. A method according to claim 18, wherein the infant formula comprises:
about 0.1% to about 3% by weight of arginine;
about 0.2% to about 1% by weight of a component selected from the group consisting of tryptophan and tyrosine; and
about 0.1 to about 1.5% by weight of histidine.
26. A method according to claim 18, wherein the infant formula comprises a lipid source and a carbohydrate source.
27. A method according to claim 19, wherein the protein source comprises less than about 8g threonine/16g nitrogen.
28. A method according to claim 19, wherein the protein source comprises casein protein.
29. A method according to claim 19, wherein the protein source is substantially free of lactose.
30. A method according to claim 19, wherein the protein source comprises:
about 0.1% to about 3% by weight of arginine;
about 0.2% to about 1% by weight of a component selected from the group consisting of tryptophan and tyrosine; and
about 0.1 to about 1.5% by weight of histidine.

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31. A method according to claim 19, wherein the formula comprises a lipid source and a carbohydrate source.

32. A method according to claim 20, wherein the protein source comprises casein protein.

33. A method according to claim 20, wherein the protein source is substantially free of lactose.

34. A method according to claim 20, wherein the protein source comprises:
about 0.1% to about 3% by weight of arginine;
about 0.2% to about 1% by weight of a component selected from the group consisting of tryptophan and tyrosine; and
about 0.1 to about 1.5% by weight of histidine.

35. A method according to claim 20, wherein the formula comprises a lipid source and a carbohydrate source.

36. A method according to claim 20, wherein the protein source comprises about 0.2% to about 0.4% by weight histidine, about 1% to about 2% by weight arginine, and about 0.2% to about 0.4% by weight tryptophan.

37. A method according to claim 20, wherein the protein source comprises about 1% to about 1.5% by weight histidine, about 0.6% to about 0.9% by weight arginine, and about 0.3% to about 0.5% by weight tyrosine.

38. A method according to claim 20, wherein the protein source comprises about 0.2% to about 0.4% by weight histidine, about 1% to about 2% by weight arginine, and about 0.2% to about 0.4% by weight tyrosine.